

## Acronyms/Abbreviations

|        |   |
|--------|---|
| AADT   | annual average daily traffic  |
| AEA    | Atomic Energy Act   |
| AEC    | U.S. Atomic Energy Commission   |
| ALARA  | as low as reasonably achievable                                       |
| ALE    | Fitzner/Eberhardt Arid Lands Ecology (Reserve)                        |
| ANSI   | American National Standards Institute                                 |
| APL    | Accelerated Process Line  |
| ARAR   | applicable or relevant and appropriate requirement                    |
| ATG    | Allied Technology Group, Inc.   |
|        |   |
| BCAA   | Benton Clean Air Authority  |
| BCF    | bioconcentration factor   |
| BDAT   | best demonstrated available technology                                |
| BHI    | Bechtel Hanford, Inc.   |
| BLS    | Bureau of Labor Statistics  |
| BNSF   | Burlington Northern and Santa Fe Railway                              |
| BPA    | (U.S. Department of Energy) Bonneville Power Administration           |
| BRMiS  | Hanford Site Biological Resources Mitigation Strategy                 |
| BRMaP  | Hanford Site Biological Resources Management Plan                     |
| BWIP   | Basalt Waste Isolation Project  |
|        |   |
| C3T    | cleanup, constraint, and challenges team                              |
| CAA    | Clean Air Act   |
| CAIRS  | Computerized Accident/Incident Reporting System                       |
| Cat 1  | Category 1 low-level waste (Hanford Site)                             |
| Cat 3  | Category 3 low-level waste (Hanford Site)                             |
| CBC    | Columbia Basin College  |
| CCP    | Comprehensive Conservation Plan                                       |
| CDE    | committed dose equivalent   |
| CEDE   | committed effective dose equivalent                                   |
| CEQ    | Council on Environmental Quality                                      |
| CERCLA | Comprehensive Environmental Response, Compensation, and Liability Act |
| CFEST  | Coupled Fluid, Energy, and Solute Transport (computer code)           |
| CFR    | Code of Federal Regulations   |
| CH     | contact-handled   |
| Ci     | curie(s)  |
| CNSS   | Council of the National Seismic System                                |
| CO     | carbon monoxide   |
| CRCIA  | Columbia River Comprehensive Impact Assessment                        |
| CRD    | Comment Response Document   |

|                |  |
|----------------|--|
| CSB            | Canister Storage Building  |
| CWC            | Central Waste Complex  |
| D&D            | decontamination and decommissioning                                |
| dB             | decibel(s)   |
| dBA            | A-weighted decibel(s)  |
| DCG            | derived concentration guide  |
| DEIS           | Draft Environmental Impact Statement                               |
| D <sub>l</sub> | longitudinal dispersivity  |
| DOE            | U.S. Department of Energy  |
| DOE-ORP        | U.S. Department of Energy, Office of River Protection              |
| DOE-RL         | U.S. Department of Energy, Richland Operations Office              |
| DOL            | U.S. Department of Labor   |
| DOT            | U.S. Department of Transportation                                  |
| D <sub>t</sub> | transverse dispersivity  |
| DWS            | drinking water standard  |
| EA             | environmental assessment   |
| ECAMP          | Ecological Compliance Assessment Management Plan                   |
| ECEM           | Ecological Contaminant Exposure Model (computer code)              |
| Ecology        | Washington State Department of Ecology                             |
| EDE            | effective dose equivalent  |
| EDNA           | environmental designation for noise abatement                      |
| EH             | U.S. Department of Energy Office of Environment, Safety and Health |
| EHQ            | environmental hazard quotient                                      |
| EIS            | environmental impact statement                                     |
| EM             | U.S. Department of Energy Office of Environmental Management       |
| EMI            | environmental management integration                               |
| EMSL           | Environmental and Molecular Sciences Laboratory                    |
| ENCO           | enterprise companies   |
| EOC            | Emergency Operations Center  |
| EPA            | U.S. Environmental Protection Agency                               |
| ERDA           | U.S. Energy Research and Development Administration                |
| ER             | environmental restoration  |
| ERDF           | Environmental Restoration Disposal Facility                        |
| ERPG           | Emergency Response Planning Guideline                              |
| ERTC           | Effluent Retention and Treatment Complex                           |
| ESA            | Endangered Species Act   |
| ESU            | Evolutionarily Significant Unit                                    |
| ETF            | 200 Area Effluent Treatment Facility                               |
| FEMA           | Federal Emergency Management Agency                                |
| FFS            | focused feasibility study  |
| FFTF           | Fast Flux Test Facility  |

|         |  |
|---------|--|
| FH      | Fluor Hanford, Inc.  |
| FONSI   | finding of no significant impact   |
| FR      | <i>Federal Register</i>  |
| FRAMES  | Framework for Risk Analysis in Multimedia Environmental Systems<br>(computer code)                           |
| FTE     | full-time equivalent (or full-time employee)   |
| FWS     | U.S. Fish and Wildlife Service   |
| FY      | fiscal year  |
| GC      | U.S. Department of Energy Office of General Counsel  |
| GIS     | geographic information system  |
| GOCO    | government-owned contractor-operated   |
| GPS     | global positioning system  |
| GTC3    | greater than Category 3 low-level waste (Hanford Site)   |
| GTCC    | greater than Class C low-level waste (NRC)   |
| HAMMER  | Hazardous Materials Management and Emergency Response Facility<br>(Volpentest Training and Education Center) |
| HCP EIS | Hanford Comprehensive Land-Use Plan Environmental Impact Statement   |
| HCRC    | Hanford Cultural Resources Case  |
| HCRL    | Hanford Cultural Resources Laboratory  |
| HDPE    | high-density polyethylene  |
| HDW EIS | Disposal of Hanford Defense High-Level, Transuranic, and Tank Wastes<br>Environmental Impact Statement       |
| HEHF    | Hanford Environmental Health Foundation  |
| HEPA    | high-efficiency particulate air  |
| HIC     | high-integrity container   |
| HLW     | high-level (radioactive) waste   |
| HMS     | Hanford Meteorology Station  |
| HPMP    | Hanford Performance Management Plan  |
| HPPE    | high-density polyethylene  |
| HSRAM   | Hanford Site Risk Assessment Methodology   |
| HSSWAC  | Hanford Site solid waste acceptance criteria   |
| HSW     | Hanford solid waste within Hanford Solid Waste Program   |
| HSW EIS | Hanford Site Solid (Radioactive and Hazardous) Waste Program<br>Environmental Impact Statement               |
| HTWOS   | Hanford Tank Waste Operating System  |
| HW      | hazardous waste  |
| HWMA    | Washington State Hazardous Waste Management Act  |
| HWMP    | Hanford Waste Management Program   |
| HWVP    | Hanford Waste Vittrification Project   |
| Hz      | hertz  |

|                |  |
|----------------|--|
| ICRP           | International Commission on Radiological Protection  |
| IDF            | integrated disposal facility   |
| IDLH           | Immediately Dangerous to Life and Health   |
| ILAW           | immobilized low-activity waste   |
| IPABS          | Integrated Planning, Accountability and Budgeting System   |
| ISCST3         | Industrial Source Complex Short-Term Model, version 3 (computer code)  |
| ISO            | International Standards Organization   |
| ISS            | interim safe storage   |
| <br>           |  |
| K <sub>d</sub> | distribution coefficient for partitioning of contaminants in soil  |
| <br>           |  |
| LCF            | latent cancer fatality   |
| LC50           | chemical concentration reported to be lethal to 50 percent of the exposed organisms after some period of exposure, usually a few hours to a few days |
| LD50           | dose reported to be lethal to 50 percent of the exposed organisms after some period of exposure, usually a few hours to a few days                   |
| LDR            | Land Disposal Restriction  |
| LEPC           | Local Emergency Planning Committee   |
| LERF           | Liquid Effluent Retention Facility   |
| LIGO           | Laser Interferometer Gravitational-Wave Observatory  |
| LLBG           | Low Level Burial Ground  |
| LLW            | low-level (radioactive) waste  |
| LLW MA         | low-level waste management area  |
| LMF            | lined modular facility   |
| LOA            | line of analysis   |
| LOEC           | lowest observed effects concentration  |
| LOEL           | lowest observed effects level  |
| LOS            | level of service   |
| LWC            | lost workday case  |
| LWD            | lost workday   |
| <br>           |  |
| M&O            | management and operations  |
| MASS2          | Modular Aquatic Simulation System 2 (computer code)  |
| MBTA           | Migratory Bird Treaty Act  |
| MCL            | maximum contaminant level  |
| MEI            | maximally exposed individual   |
| MEK            | methyl ethyl ketone  |
| MEPAS          | Multimedia Environmental Pollutant Assessment System   |
| MLLW           | mixed low-level waste  |
| MMEDE          | Multimedia-Modeling Environmental Database Editor (computer code)  |
| MMI            | Modified Mercalli Intensity  |
| MT             | metric ton(s) (tonnes)   |
| MTCA           | Model Toxics Control Act   |
| MTG            | minimum technology guidance  |
| MTU            | metric tons of uranium   |

|                   |  |
|-------------------|--|
| NAAQS             | National Ambient Air Quality Standards                         |
| National Register | National Register of Historic Places                           |
| NCRP              | National Council on Radiation Protection and Measurements      |
| NDA               | non-destructive assay  |
| NDE               | non-destructive examination                                    |
| ND                | not detected   |
| NE                | no emissions   |
| NEPA              | National Environmental Policy Act                              |
| NESHAPs           | National Emission Standards for Hazardous Air Pollutants       |
| NIOSH             | National Institute for Occupational Safety and Health          |
| NM                | not measured   |
| NMFS              | National Marine Fisheries Service                              |
| NO <sub>2</sub>   | nitrogen dioxide   |
| NOA               | Notice of Availability   |
| NOAEL             | no observed adverse effects level                              |
| NOC               | Notice of Construction   |
| NOE               | Notice of Extension  |
| NOI               | Notice of Intent   |
| NPDES             | National Pollutant Discharge Elimination System                |
| NPS               | National Park Service  |
| NRC               | U.S. Nuclear Regulatory Commission                             |
| NS                | no standard  |
| NTS               | Nevada Test Site   |
| NWPF              | new waste processing facility                                  |
| NWS               | National Weather Service                                       |
|                   |  |
| OAR               | Oregon Administrative Rule                                     |
| OCF               | offsite commercial facility                                    |
| OFM               | Office of Financial Management                                 |
| ORP               | (U.S. Department of Energy) Office of River Protection         |
| ORR               | (U.S. Department of Energy) Oak Ridge Reservation              |
| OSHA              | U.S. Occupational Safety and Health Administration             |
|                   |  |
| PA                | performance assessment   |
| PCB               | polychlorinated biphenyl                                       |
| pCi               | picocurie(s)   |
| PEIS              | Programmatic Environmental Impact Statement                    |
| PEL               | permissible exposure level                                     |
| PFP               | Plutonium Finishing Plant                                      |
| PHMC              | Project Hanford Management Contract                            |
| PM                | particulate matter   |
| PM <sub>10</sub>  | particulate matter with aerodynamic diameters 10 µm or smaller |
| PNNL              | Pacific Northwest National Laboratory                          |
| ppm               | parts per million  |

|                 |  |
|-----------------|--|
| PSD             | prevention of significant deterioration  |
| Pu              | plutonium  |
| PUREX           | Plutonium-Uranium Extraction Facility  |
| R               | roentgen   |
| R&D             | research and development   |
| RADTRAN         | Radioactive Transportation Risk Analysis (computer code)                             |
| RCRA            | Resource Conservation and Recovery Act   |
| RCT             | radiological control technician  |
| RCW             | Revised Code of Washington   |
| REIS            | Regional Economic Information System   |
| R <sub>f</sub>  | contaminant retardation factors  |
| RfD             | reference dose   |
| RH              | remote-handled   |
| RIMS            | Regional Input-Output Modeling System (computer code)                                |
| RL              | (U.S. Department of Energy) Richland Operations Office                               |
| ROD             | Record of Decision   |
| RPP             | River Protection Project   |
| SA              | safety analysis  |
| SAC             | System Assessment Capability (computer code)   |
| SALDS           | State-Approved Land Disposal Structure   |
| SC              | species of concern   |
| SCAPA           | Subcommittee on Consequence Assessment and Protective Actions                        |
| SEIS            | Supplemental Environmental Impact Statement  |
| SEPA            | State (of Washington) Environmental Policy Act                                       |
| SERC            | State Emergency Response Commission  |
| SI              | Le Système International d'Unités (International System of Units<br>[metric system]) |
| SIP             | state implementation plan  |
| SLD             | shallow land disposal  |
| SNF             | spent nuclear fuel   |
| SO <sub>2</sub> | sulfur dioxide   |
| SR              | State Route  |
| SRS             | (U.S. Department of Energy) Savannah River Site                                      |
| SST             | single-shell tank  |
| STOMP           | Subsurface Transport Over Multiple Phases (computer code)                            |
| STP             | site treatment plan  |
| SWB             | standard waste box   |
| SWBG            | solid waste burial ground  |
| SWIFT           | Solid Waste Integrated Forecast Technical (report)                                   |
| SWITS           | Solid Waste Information and Tracking System  |
| SWOC            | Solid Waste Operations Complex   |

|                 |   |
|-----------------|---|
| T&E             | threatened and endangered (biological species designation)                                      |
| TCP             | traditional cultural property   |
| TD              | temperature difference  |
| TEDE            | total effective dose equivalent   |
| TEDF            | 200 Area Treated Effluent Disposal Facility   |
| TEEL            | Temporary Emergency Exposure Limit  |
| TI              | Transportation Index  |
| TLV             | threshold limit value   |
| TNC             | The Nature Conservancy (of Washington)  |
| TPA             | Tri-Party Agreement (Hanford Federal Facility Agreement and Consent Order)                      |
| TRAGIS          | Transportation Routing Analysis Geographic Information System<br>(computer code)                |
| TRC             | total recordable case   |
| TRIGA           | Test Reactor and Isotope Production General Atomics   |
| TRU             | transuranic   |
| TRUPACT-II      | Transuranic Package Transporter-II  |
| TRUSAF          | Transuranic Storage and Assay Facility  |
| TSCA            | Toxic Substances Control Act  |
| TSD             | treatment, storage, and/or disposal   |
| TSP             | total suspended particulates  |
| TWRS            | Tank Waste Remediation System   |
|                 |   |
| UPR             | unplanned release   |
| UO <sub>3</sub> | uranium trioxide  |
| USC             | United States Code  |
| USGS            | U.S. Geological Survey  |
| UW              | University of Washington  |
| UWGP            | University of Washington Geophysics Program   |
|                 |   |
| VADER           | VADose zone Environmental Release (computer code)   |
| VOC             | volatile organic compound   |
|                 |   |
| WAC             | Washington Administrative Code  |
| WDFW            | Washington State Department of Fish and Wildlife  |
| WDOH            | Washington State Department of Health   |
| WESF            | Waste Encapsulation and Storage Facility  |
| WHC             | Westinghouse Hanford Company  |
| WIF             | well intercept factor   |
| WIPP            | Waste Isolation Pilot Plant   |
| WIPP SEIS2      | Waste Isolation Pilot Plant Disposal Phase Final Supplemental Environmental<br>Impact Statement |
| WM              | waste management  |
| WM PEIS         | Waste Management Programmatic Environmental Impact Statement                                    |
| WNHP            | Washington Natural Heritage Program   |

WRAP  
WSU-TC  
WTP

Waste Receiving and Processing Facility  
Washington State University – Tri-Cities Branch Campus  
waste treatment plant